

09/299,539

Page 3

IN THE CLAIMS

Please cancel Claim 9 without prejudice.

Please amend the following claims.

Claim 1, line 2, delete "obtainable" and substitute therefor --
obtained--.

Claim 10, line 1, delete "system" and substitute therefor --
composition--.

Claim 11, line 1, delete "system" and substitute therefor --
composition--.

Claim 12, line 1, delete "system" and substitute therefor --
composition--.

Claim 12, line 1, delete "12" and substitute therefor --2--.

Claim 13, line 1, delete "system" and substitute therefor --
composition--.

Claim 14, line 1, delete "system" and substitute therefor --
composition--.

Claim 14, line 1, delete "13" and substitute therefor --12--.

Claim 15, line 1, delete "system" and substitute therefor --
composition--.

Claim 16, line 1, delete "system" and substitute therefor --
composition--.

09/299,539

Page 4

Claim 17, line 1, delete "system" and substitute therefor -- composition--.

Claim 17, line 1, delete "13" and substitute therefor --12--.

Claim 18, line 1, delete "system" and substitute therefor -- composition--.

Claim 19, line 1, delete "system" and substitute therefor -- composition--.

Claim 20, line 3, delete "system" and substitute therefor -- composition--.

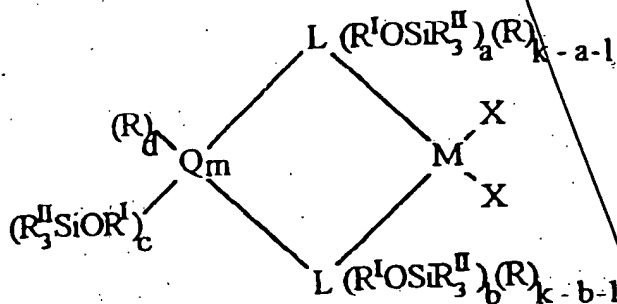
Please add the following new claim.

--21.

A heterogeneous catalytic system obtained by reacting a porous inorganic support with an alumoxane and subsequently supporting at least one metallocene compound thereon, wherein the metallocene compound is defined by formula I, II, or III:



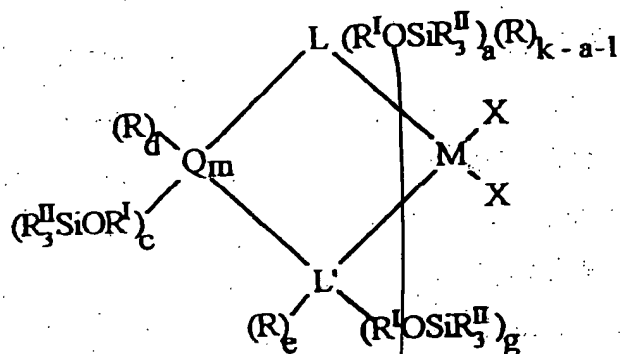
I,



II, or

09/299,539

Page 5



III ,

wherein:

the **L** groups are equal to or different from each other, wherein each **L** is selected from the group consisting of cyclopentadienyl, indenyl, tetrahydroindenyl, fluorenyl, octahydrofluorenyl, and benzoindenyl;

each **R** is independently hydrogen, linear or branched C_1 - C_{20} alkyl, linear or branched C_3 - C_{20} cycloalkyl, linear or branched C_6 - C_{20} aryl, linear or branched C_3 - C_{20} alkenyl, linear or branched C_7 - C_{20} arylalkyl, linear or branched C_7 - C_{20} alkylaryl, linear or branched C_8 - C_{20} arylalkenyl, or a group SiR^{II}_3 , wherein the C_1 - C_{20} alkyl, the C_3 - C_{20} cycloalkyl, the C_6 - C_{20} aryl, the C_3 - C_{20} alkenyl, the C_7 - C_{20} arylalkyl, the C_7 - C_{20} alkylaryl, and the C_8 - C_{20} arylalkenyl are optionally substituted with 1 to 10 halogen atoms;

the **R^I** groups are equal to or different from each other, wherein each **R^I** is a divalent aliphatic or aromatic hydrocarbon group containing from 1 to 20 carbon atoms, optionally containing from 1 to 5 heteroatoms of groups 14 to 16 of the Periodic Table of the Elements, and optionally containing boron;

each **R^{II}** is independently linear or branched C_1 - C_{20} alkyl, linear

09/299,539

Page 6

or branched C₃-C₂₀ cycloalkyl, linear or branched C₆-C₂₀ aryl, linear or branched C₃-C₂₀ alkenyl, linear or branched C₇-C₂₀ arylalkyl, linear or branched C₈-C₂₀ arylalkenyl, or linear or branched C₇-C₂₀ alkylaryl;

each Q is independently B, C, Si, Ge, or Sn;

M is a lanthanide, an actinide, or a metal of group 3, 4, or 10 of the Periodic Table of the Elements, and M has a valence;

each X is independently hydrogen, chlorine, bromine, OR^{II}, NR^{II}₂,

C₁-C₂₀ alkyl, or C₆-C₂₀ aryl ;

L' is N or O;

when L is cyclopentadienyl, k is equal to 5; when L is indenyl, k is equal to 7; when L is fluorenyl or benzoindenyl, k is equal to 9; when L is tetrahydroindenyl, k is equal to 11; and when L is octahydrofluorenyl, k is equal to 17;

z is equal to 0, 1, or 2;

x is equal to 1, 2, or 3;

y is equal to 1, 2, or 3;

x + y + z is equal to the valence of M;

m is equal to 1;

a is an integer whose value ranges from 0 to k-1;

b is an integer whose value ranges from 0 to k-1;

f is an integer whose value ranges from 1 to k;

g is equal to 0 to 1;

c is equal to 0 or 1;

e is equal to 0 or 1;

a + b + c is at least 1;

a + g + c is at least 1;

d is equal to 0, 1, or 2;

when Q is B, then c + d = 1;

when Q is C, Si, Ge, or Sn, then c + d = 2;

when L' is N, then g + e = 1; and

when L' is O, then g = 0 and e = 0.--